

| | | | | | |
|---|---|----|---|---------------------------------|--------------------|
| Substitute for form 1449A/PTO | | | | | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | <i>Complete if Known</i> | |
| | | | | Application Number | 10/665,680 |
| | | | | Filing Date | September 19, 2003 |
| | | | | First Named Inventor | Kendra Gallup |
| | | | | Art Unit | 2883 |
| | | | | Examiner Name | Chiem, Dinh D. |
| | | | | | |
| Sheet | 1 | of | 5 | Attorney Docket No: 10030768-01 | |

| US PATENT DOCUMENTS | | | | | |
|---------------------|---------|-----------------|------------------|---|----------------------------|
| Examiner Initial * | Cite No | Document Number | Publication Date | Name of Patentee or Applicant of Cited Document | Filing Date If Appropriate |
| /E.C./ | | US-5485021 | 01/16/1996 | Takao, Abe | |
| | | US-6422766 | 07/23/2002 | Althaus et al. | |
| | | US-6774404 | 08/01/2004 | Imai, Sadato | |
| | | US-5801402 | 09/01/1998 | Shin, Hyun-kuk | |
| | | US-4847848 | 07/01/1989 | Inoue et al. | |
| | | US-2004/0086011 | 05/01/2004 | Bhandarkar, Sarvotham M. | |
| | | US-6416238 | 07/01/2002 | Gilliland et al. | |
| | | US-6540412 | 04/01/2003 | Yonemura et al. | |
| | | US-6354747 | 03/01/2002 | Irie et al. | |
| | | US-6652158 | 11/01/2003 | Bartur et al. | |
| | | US-6144787 | 11/01/2000 | Johnston et al. | |
| | | US-5104242 | 04/01/1992 | Ishikawa, Masatake | |
| | | US-6303922 | 10/01/2001 | Kasper, Bryon L. | |
| | | US-5912872 | 06/15/1999 | Feldman, Michael R. | |
| | | US-2003/0116825 | 06/26/2003 | Geefay, Frank | |
| | | US-2002/0179921 | 12/05/2002 | Cohn, Michael B. | |
| | | US-2005/0058222 | 03/01/2005 | Black et al. | |
| | | US-6684033 | 01/27/2004 | Doh et al. | |
| | | US-5565672 | 10/01/1996 | Siegel et al. | |
| | | US-2002/0101641 | 08/01/2002 | Kurchuk, Boris A. | |
| | | US-2005/0052255 | 03/01/2005 | Chiang, Ting-Kuang | |
| | | US-2005/0134349 | 06/01/2005 | Krishnaswami, Anush A. | |
| | | US-2005/0191059 | 09/01/2005 | Swenson et al. | |
| | | US-2002/0152408 | 10/01/2002 | Inui et al. | |
| | | US-5781422 | 07/01/1998 | Lavin et al. | |
| | | US-5532524 | 07/01/1996 | Townsley et al. | |
| | | US-7134032 | 11/01/2006 | Yamada et al. | |
| | | US-6085048 | 07/01/2000 | Mikoshiba et al. | |
| | | US-5998982 | 12/01/1999 | Groeneveld et al. | |
| | | US-6980823 | 12/01/2005 | Challa et al. | |
| | | US-6608476 | 08/01/2003 | Mirov et al. | |
| | | US-6079025 | 06/01/2000 | Fung, Henry T. | |
| | | US-6016548 | 01/01/2000 | Nakamura et al. | |
| | | US-6460143 | 10/01/2002 | Howard et al. | |
| | | US-6230277 | 05/08/2001 | Nakaoka et al. | |

EXAMINER

/Erin Chiem/

DATE CONSIDERED

01/07/2008


| | | | | | | | | | | | | | | | |
|--|--------------------|----|---|---|--|--------------------|------------|-------------|--------------------|----------------------|---------------|----------|------|---------------|----------------|
| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | <i>Complete if Known</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/665,680</td> </tr> <tr> <td>Filing Date</td> <td>September 19, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Kendra Gallup</td> </tr> <tr> <td>Art Unit</td> <td>2883</td> </tr> <tr> <td>Examiner Name</td> <td>Chiem, Dinh D.</td> </tr> </table> | | Application Number | 10/665,680 | Filing Date | September 19, 2003 | First Named Inventor | Kendra Gallup | Art Unit | 2883 | Examiner Name | Chiem, Dinh D. |
| Application Number | 10/665,680 | | | | | | | | | | | | | | |
| Filing Date | September 19, 2003 | | | | | | | | | | | | | | |
| First Named Inventor | Kendra Gallup | | | | | | | | | | | | | | |
| Art Unit | 2883 | | | | | | | | | | | | | | |
| Examiner Name | Chiem, Dinh D. | | | | | | | | | | | | | | |
| Sheet | 2 | of | 5 | Attorney Docket No: 10030768-01 | | | | | | | | | | | |

| US PATENT DOCUMENTS | | | | | |
|---------------------|---------|-----------------|------------------|---|----------------------------|
| Examiner Initial * | Cite No | Document Number | Publication Date | Name of Patentee or Applicant of Cited Document | Filing Date If Appropriate |
| /E.C./ | | US-6089456 | 07/08/2000 | Walsh et al. | |
| | | US-6085328 | 07/04/2000 | Klein et al. | |
| | | US-6047380 | 04/04/2000 | Nolan et al. | |
| | | US-5742833 | 04/21/1998 | Dea et al. | |
| | | US-6801196 | 10/01/2004 | Bodley et al. | |
| | | US-6037641 | 03/01/2000 | Goel, Atul | |
| | | US-5394490 | 02/01/1995 | Kato et al. | |
| | | US-2002/0008326 | 01/24/2002 | Mizusaki, Manabu | |
| | | US-6979810 | 12/27/2005 | OpNext Japan, Inc. | |
| | | US-2007/0206964 | 09/06/2007 | Lee et al. | |
| | | US-2007/0047963 | 03/01/2007 | Dallessasse, John | |
| | | US-5512860 | 04/30/1996 | PMC Sierra, Inc. | |
| | | US-2005/0019042 | 01/27/2005 | Kaneda, Noriaki | |
| | | US-2006/0115280 | 06/01/2006 | Chang, Jae | |
| | | US-2007/0019966 | 01/25/2007 | Delta Electronics, Inc. | |
| | | US-2007/0127929 | 06/07/2007 | Fujitsu Limited | |
| | | US-2007/0154225 | 07/05/2007 | Schulz, Craig | |
| | | US-2007/0154147 | 07/05/2007 | Weem, Jan | |
| | | US-2007/0166047 | 07/19/2007 | Berger, Joern | |
| | | US-5513289 | 04/30/1996 | Hosokawa et al. | |
| | | US-3816847 | 06/11/1974 | Nagao, Hiroyuki | |
| | | US-4993799 | 02/19/1991 | Stein, Karl-Ulrich | |
| | | US-5835514 | 11/01/1998 | Yuen, Albert T., et al. | 01/25/1996 |
| | | US-5577142 | 11/19/1996 | Mueller-Fiedler et al. | |
| | | US-6567439 | 05/20/2003 | Auracher et al. | |
| | | US-6731882 | 05/04/2004 | Althaus et al. | |
| | | US-5566265 | 10/15/1996 | Spaeth et al. | |
| | | US-20030119308 | 06/26/2003 | Geefay et al. | |
| | | US-2003/0071283 | 04/17/2003 | Heschel | |
| | | US-6275513 | 08/14/2001 | Chang-Hasnain et al. | |
| | | US-6036872 | 03/14/2000 | Wood et al. | |
| | | US-4966430 | 10/30/1990 | Wiedel | |
| | | US-6777263 | 08/01/2004 | Gan et al. | |
| | | US-5956370 | 09/01/1999 | Ducaroir et al. | |
| | | US-6115763 | 09/01/2000 | Douskey et al. | |

EXAMINER /Erin Chiem/

DATE CONSIDERED 01/07/2008

| | | | | | | | | | | | | | | | |
|--|--------------------|----|---|---|--|--------------------|------------|-------------|--------------------|----------------------|---------------|----------|------|---------------|----------------|
| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | <i>Complete if Known</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/665,680</td> </tr> <tr> <td>Filing Date</td> <td>September 19, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Kendra Gallup</td> </tr> <tr> <td>Art Unit</td> <td>2883</td> </tr> <tr> <td>Examiner Name</td> <td>Chiem, Dinh D.</td> </tr> </table> | | Application Number | 10/665,680 | Filing Date | September 19, 2003 | First Named Inventor | Kendra Gallup | Art Unit | 2883 | Examiner Name | Chiem, Dinh D. |
| Application Number | 10/665,680 | | | | | | | | | | | | | | |
| Filing Date | September 19, 2003 | | | | | | | | | | | | | | |
| First Named Inventor | Kendra Gallup | | | | | | | | | | | | | | |
| Art Unit | 2883 | | | | | | | | | | | | | | |
| Examiner Name | Chiem, Dinh D. | | | | | | | | | | | | | | |
| Sheet | 3 | of | 5 | Attorney Docket No: 10030768-01 | | | | | | | | | | | |

| US PATENT DOCUMENTS | | | | | |
|--|------------|-----------------|------------------|---|----------------------------|
| Examiner Initial * | Cite No | Document Number | Publication Date | Name of Patentee or Applicant of Cited Document | Filing Date If Appropriate |
| /E.C./ | | US-6977960 | 12/20/2005 | Takinosawa, Jun | |
|  | | US-6874107 | 03/29/2005 | Lesea, Austin H. | |
| | | US-6201829 | 03/01/2001 | Schneider, Thomas R. | |
| | | US-5602855 | 02/11/1997 | Whetsel, Jr. | |
| | | US-4680733 | 07/14/1987 | Duforestel et al. | |
| | | US-2003/0160256 | 08/01/2003 | Durocher et al. | |
| | | US-6274890 | 08/01/2001 | Oshio et al. | |
| | | US-2003/0089902 | 05/15/2003 | Yue, Liu | |
| | | US-6187211 | 02/01/2001 | Smith et al. | |
| | | US-6599666 | 07/01/2003 | Rolfson, J. B. | |
| | | US-4307934 | 12/01/1981 | Palmer, John P. | |
| | | US-5390271 | 02/01/1995 | Priest, John F. | |
| | | US-5552918 | 09/01/1996 | Krug et al. | |
| | | US-6757308 | 06/01/2004 | Eldring et al. | |
| | | US-6759723 | 07/01/2004 | Silverbrook, Kia | |
| | | US-2003/0142914 | 07/01/2003 | Jewell et al. | |
| | | US-6234687 | 05/01/2001 | Hall et al. | |
| | | US-6243508 | 06/01/2001 | Jewell et al. | |
| | | US-5940564 | 08/17/1999 | Jewell, Jack L. | |
| | | US-5578863 | 11/01/1996 | De Poorter, Johannes A. | |
| | | US-5665982 | 09/01/1997 | Torikai, Masahiro | |
| | US-6686580 | 02/01/2004 | Glenn et al. | | |

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|----------------|-------------------------|---------------------|---|----------------|
| Examiner Initials* | Cite No | Foreign Patent Document | Publication Date | Name of Patentee or Applicant of cited Document | T ² |
| /E.C./ | | WO-01/01497 | 01/04/2001 | Honeywell, Inc., | |
| | | EP-0713113 | 05/22/1996 | ANT Nachrichtentechnik GmbH, | |
| | | DE-19508222 | 06/05/1998 | Siemens AG, | |
| | | WO98/50810A1 | 11/12/1998 | Bosch, Robert | |
| | | DE-10150401 | 10/11/2001 | Miller, David B., et al. | |
| | | EP-1187373A2 | 03/01/2002 | DOH, , et al. | |
| | | EP-1187373 A3 | 01/01/2005 | DOH, , et al. | |
| | | EP-1199697 | 04/24/2002 | Kikinis, | |
| | JP-2007/020008 | 01/25/2007 | Hiroyuki, Takahashi | | |

EXAMINER

/Erin Chiem/

DATE CONSIDERED

01/07/2008

| | | | | | | | | | | | | | | | |
|--|--------------------|----|---|--|--|---------------------------|------------|--------------------|--------------------|-----------------------------|---------------|-----------------|------|----------------------|----------------|
| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | <i>Complete If Known</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Application Number</td> <td>10/665,680</td> </tr> <tr> <td>Filing Date</td> <td>September 19, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Kendra Gallup</td> </tr> <tr> <td>Art Unit</td> <td>2883</td> </tr> <tr> <td>Examiner Name</td> <td>Chiem, Dinh D.</td> </tr> </table> | | Application Number | 10/665,680 | Filing Date | September 19, 2003 | First Named Inventor | Kendra Gallup | Art Unit | 2883 | Examiner Name | Chiem, Dinh D. |
| Application Number | 10/665,680 | | | | | | | | | | | | | | |
| Filing Date | September 19, 2003 | | | | | | | | | | | | | | |
| First Named Inventor | Kendra Gallup | | | | | | | | | | | | | | |
| Art Unit | 2883 | | | | | | | | | | | | | | |
| Examiner Name | Chiem, Dinh D. | | | | | | | | | | | | | | |
| Sheet | 4 | of | 5 | Attorney Docket No: 10030768-01 | | | | | | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|---------|-------------------------|------------------|---|----------------|
| Examiner Initials* | Cite No | Foreign Patent Document | Publication Date | Name of Patentee or Applicant of cited Document | T ² |
| | | EP-1104113 | 05/30/2001 | NEC Corporation, | |
| | | EP0366974A1 | 07/10/1989 | Systemtechnik, Telefunken | |
| | | DE4440935A1 | 05/23/1996 | GmbH, ANT N. | |
| | | DE-19823691 | 12/02/1999 | Althaus, Ludwig, , et al. | |
| | | DE-3834335 | 04/12/1990 | Weidel, Edgar , et al. | |

| OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS | | | |
|--|----------------------|---|----------------|
| Examiner Initials* | Cite No ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | | AGILENT TECHNOLOGIES, INC., "Gigabit Ethernet and Fibre Channel SerDes ICs", <u>Technical Data Sheet</u> , (04/2000), | |
| | | "German Office Action involving counterpart German Patent Application", <u>No. 102004025775</u> , (2/16/2007),2-54 | |
| | | "English Translation of German Office Action involving counterpart German Patent Application", <u>No. 102004025775</u> , (02/16/2007),2-54 | |
| | | SKLAR, B. "Digital Communications: Fundamentals and Applications", <u>2nd Ed.</u> , Upper Saddle River, NJ: Prentice Hall PTR, (2001), | |
| | | SIALM, et al., "Ultra-Fast CMOS Transceiver Design for Optical Interconnect Applications", Website: www.ife.ee.ethz.ch/rfic/ Link: 10 Gbit/s Optolink, | |
| | | PEPELJUGOSKI, P. et al., "Improved Performance of 10 Gb/s Multimode Fiber Optic Links Using Equalization", <u>Optical Fiber Communications Conference, OFC 2003</u> , Vol 2., (March 23-28 2003),472-474 | |
| | | PALLOTTA, ANDREA et al., "A Low-Power Clock and Data Recovery Circuit for 2.5 Gb/s SDH Receivers", <u>ISLPED</u> , Rapallo, Italy, (2000),67-72 | |
| | | TAKESHITA, T. "A 622Mb/s Fully-Integrated Optical IC with a Wide Range Input", <u>IEEE, International Solid-State Circuits Conference</u> , (2002), | |
| | | "German Office Action; involving counterpart German Patent Application", <u>No. 10 2004 028 117</u> , (11/2/2006),3-54 | |
| | | "English translation of German Office Action; involving counterpart German Patent Application", <u>No. 10 2004 028 117</u> , (11/2/2006),3-54 | |
| | | "German Office Action; involving counterpart German Patent Application", <u>No. 10 2004 028 117</u> , (03/20/2007),3-54 | |
| | | "English translation of German Office Action; involving German Patent", <u>No. 10 2004 028 117</u> , (03/20/2007),3-54 | |
| | | "German Office Action; involving counterpart German Patent Application No.", <u>102004026990</u> , (02/21/2007),4-54 | |

EXAMINER /Erin Chiem/

DATE CONSIDERED 01/07/2008

| | | | | | | | | | | | | | | | | | |
|---|--------------------|----|---|--|--|---------------------------|------------|--------------------|--------------------|-----------------------------|---------------|-----------------|------|----------------------|----------------|--|--|
| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | <div style="text-align: right; font-size: small;"><i>Complete if Known</i></div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Application Number</td> <td>10/665,680</td> </tr> <tr> <td>Filing Date</td> <td>September 19, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Kendra Gallup</td> </tr> <tr> <td>Art Unit</td> <td>2883</td> </tr> <tr> <td>Examiner Name</td> <td>Chiem, Dinh D.</td> </tr> <tr> <td colspan="2" style="height: 20px;"></td> </tr> </table> | | Application Number | 10/665,680 | Filing Date | September 19, 2003 | First Named Inventor | Kendra Gallup | Art Unit | 2883 | Examiner Name | Chiem, Dinh D. | | |
| Application Number | 10/665,680 | | | | | | | | | | | | | | | | |
| Filing Date | September 19, 2003 | | | | | | | | | | | | | | | | |
| First Named Inventor | Kendra Gallup | | | | | | | | | | | | | | | | |
| Art Unit | 2883 | | | | | | | | | | | | | | | | |
| Examiner Name | Chiem, Dinh D. | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Sheet | 5 | of | 5 | Attorney Docket No: 10030768-01 | | | | | | | | | | | | | |

| OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS | | | |
|--|-------------------------|---|----------------|
| Examiner Initials* | Cite No ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| /E.C./ | | "English translation of German Office Action involving counterpart German Patent Application No.", 102004026990, (02/21/2007), 4-54 | |

EXAMINER /Erin Chiem/

DATE CONSIDERED

01/07/2008